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(54) **A gateway system and method**

(57) A video conference may be held with a participant (node) being on a plain old telephone system by using a conventional private telephone system 53, a LAN 52, and a gateway system 20 that relays data, via a private branch exchange 10, to an information processing unit 54 that is on the external plain old telephone system, and to an information processing unit 100 that is connected to an extension telephone and a LAN. The gateway system comprises: a modem 81 for receiving a call from, or transmitting a call to, the plain

old telephone system, and for modulating and demodulating a signal; multiplex/demultiplex means 82 for multiplexing voice information and computer data to prepare a packet, or for demultiplexing a packet to acquire voice data and computer data separately; a LAN adaptor 75 for transmitting and receiving computer data via the LAN; dialing means 75 for making a call to an extension telephone; signal processing means 83 for coding and decoding voice data; and AD/DA conversion means 84 for performing analog-digital or digital-analog conversion on a signal.

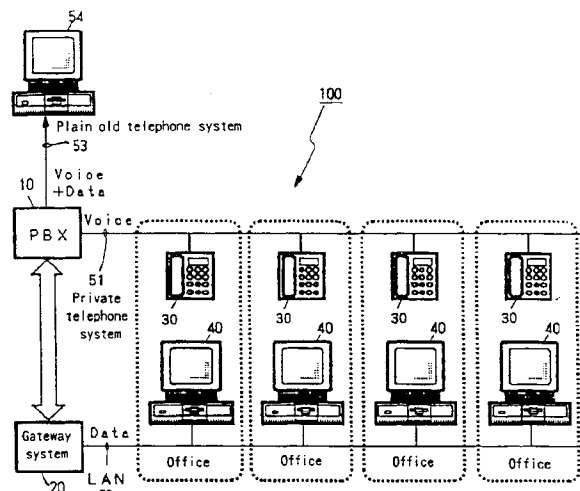


FIG. 1



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EUROPEAN SEARCH REPORT

Application Number
EP 95 30 8638

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP 0 377 392 A (IBM) 11 July 1990 (1990-07-11) * page 1, line 51 - page 2, line 14 * * figure 1 *	1-5	H04M3/56 H04L12/18
A	--- GOLDBERG L: "CTI: COMPUTER/PHONE FUSION AT LAN'S EDGE" ELECTRONIC DESIGN, vol. 42, no. 22, 25 October 1994 (1994-10-25), pages 77/78, 80-82, 84, XP000477300 ISSN: 0013-4872 * figures 1,2 *	1-5	
A	--- US 5 355 365 A (BHAT DAMODAR ET AL) 11 October 1994 (1994-10-11) * column 2, line 5 - line 31 *	1-5	
P,A	--- GB 2 279 204 A (IBM) 21 December 1994 (1994-12-21) * page 2, line 19 - page 3, line 10 *	1-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04M H04L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 2 September 1999	Examiner Schweitz, M
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 95 30 8638

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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02-09-1999

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0377392	A	11-07-1990	US 4943996 A	24-07-1990
			DE 68927992 D	28-05-1997
			DE 68927992 T	23-10-1997
			JP 2205160 A	15-08-1990

US 5355365	A	11-10-1994	WO 9423515 A	13-10-1994

GB 2279204	A	21-12-1994	US 5526354 A	11-06-1996
			EP 0634857 A	18-01-1995
			JP 7095242 A	07-04-1996
